

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000633

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7: H04L 12/28**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC7: H04L**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

**SE,DK,FI,NO classes as above**

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**EPO-INTERNAL, WPI DATA, PAJ, INSPEC**

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5596439 A (DANKBERG, M D ET AL), 21 January 1997 (21.01.1997), page 1, line 1 - line 25, figures 1,5, claim 1, abstract  --	1-7,12-23, 28-43
A	US 4470138 A (GUTLEBER, F S), 4 Sept 1984 (04.09.1984), abstract  --	1-34
A	TOUMPIS, S ET AL: Capacity regions for wireless ad hoc networks. 2002 IEEE Int Conf on Communications. Conf Proc at CC No.02 CH37333, Proc of IEEE Int Conf on Communications, New York, NY, US April-May 2002. ISBN 0-78374002. Pages 3168-3173 vol 5. See chapter E, abstract  -----	1-34

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"E"	earlier application or patent but published on or after the international filing date
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X"	document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y"	document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&"	document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
20 August 2004	25-08-2004
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. + 46 8 666 02 86	Authorized officer  LISBETH ANDERSSON /LR Telephone No. + 46 8 782 25 00

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

03/07/2004

International application No.  
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US	5596439	A	21/01/1997	AU	702570	B	25/02/1999
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				BR	9609833	A	27/07/1999
				CA	2227143	A	13/02/1997
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				IL	123120	A	14/06/2001
				JP	11510344	T	07/09/1999
				WO	9705711	A	13/02/1997
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